

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (currently amended): A method for processing a computer aided polygon model, ~~characterized by~~ comprising:

forming ~~(310)~~ a linear vertex array which is static and which contains the vertices of the image elements of the polygon model;

- 5 forming ~~(320)~~ a linear index array whose elements define the image elements of the polygon model by pointing at the vertices of each image element, and which linear index array comprises an active part, the image elements defined by the elements of the active part being included in the polygon model part to be presented graphically; and
- 10 modifying ~~(350)~~ the active part of the index array to change the image elements included in the polygon model part to be presented graphically while maintaining the linearity of the index array.

Claim 2 (currently amended): A method according to claim 1, ~~characterized by~~ further comprising presenting ~~(370)~~ graphically the polygon model part to be presented graphically.

Claim 3 (currently amended): A method according to claim 1, ~~characterized by~~ further comprising modifying ~~(350)~~ the active part of the linear index array by replacing an element of the linear index array with another element of the linear index array.

Claim 4 (currently amended): A method according to claim 1, ~~characterized by~~ further comprising forming ~~(310)~~ the linear vertex array in such a way that each vertex appears in the vertex array only once.

Claim 5 (currently amended): A method according to claim 1, ~~characterized by~~ further comprising forming ~~(320)~~ a linear index array in such a way that the linear index

array further comprises a passive part, the image elements defined by the elements of the passive part belonging to the outside of the polygon model part to be presented graphically;

5 and

modifying (350) the active part of the linear index array by moving at least one element of the linear index array between the active part and the passive part.

Claim 6 (currently amended): A method according to claim 1, ~~characterized by~~ further comprising registering (360) the modification of the linear index array in such a way that the linear index array is restorable to the state preceding the modification.

Claim 7 (currently amended): A method according to claim 1, ~~characterized by~~ further comprising receiving (330) a modification command to modify the active part of the linear index array; and

5 changing (340) the size of the active part of the linear index array on the basis of the modification command.

Claim 8 (currently amended): A method according to claim 1, ~~characterized by~~ further comprising receiving (330) a modification command to modify the active part of the linear index array; and

5 modifying (350) the active part of the linear index array on the basis of the modification command.

Claim 9 (currently amended): A device for processing a computer aided polygon model, ~~characterized in that the device comprises~~ comprising:

a linear vertex array (410) which is static and which contains the vertices (110A to 122A) of the image elements of the polygon model;

5 a linear index array (430) whose elements (432 to 438) define the image elements (130A to 142A) of the polygon model by pointing at the vertices (110A to 122A) of each image element (130A to 142A), and which linear index array (430) comprises an

active part ~~(440)~~, the image elements defined by the elements ~~(432, 434)~~ of the active part being included in the polygon model part to be presented graphically; and

10           a modification unit ~~(450)~~ to modify the active part ~~(440)~~ of the index array ~~(430)~~ to change the image elements ~~(130A to 142A)~~ included in the polygon model part to be presented graphically while maintaining the linearity of the linear index array ~~(430)~~.

Claim 10 (currently amended): A device according to claim 9, ~~characterized in that the device~~ further ~~comprises~~ comprising a graphic user interface ~~(460)~~ for presenting graphically the polygon model part to be presented graphically.

Claim 11 (currently amended): A device according to claim 9, ~~characterized in that~~ wherein the modification unit ~~(450)~~ is configured to replace an element ~~(432, 436)~~ of the linear index array ~~(430)~~ with another element ~~(434, 438)~~ of the linear index array ~~(430)~~.

Claim 12 (currently amended): A device according to claim 9, ~~characterized in that~~ wherein the linear vertex array ~~(410)~~ contains each vertex ~~(110A to 122A)~~ only once.

Claim 13 (currently amended): A device according to claim 9, ~~characterized in that~~ wherein the linear index array ~~(430)~~ further comprises a passive part ~~(446)~~, the image elements defined by the elements ~~(436, 438)~~ of the passive part belonging to the outside of the polygon model part to be presented graphically; and

5           a wherein the modification unit ~~(450)~~ is configured to move at least one element ~~(432 to 438)~~ of the linear index array ~~(430)~~ between the active part ~~(440)~~ and the passive part ~~(446)~~.

Claim 14 (currently amended): A device according to claim 9, ~~characterized in that the device~~ further ~~comprises~~ comprising a change array ~~(470)~~ for registering the modification of the linear index array ~~(430)~~ in such a way that the linear index array ~~(430)~~ is restorable to the state preceding the modification.

Claim 15 (currently amended): A device according to claim 9, ~~characterized in that~~ wherein the modification unit ~~unit (450)~~ is configured to receive a modification command (452) to modify the active part (440) of the linear index array (430); and

5        wherein the modification unit ~~unit (450)~~ is configured to change the size of the active part (440) of the linear index array (430) on the basis of the modification command (452).

Claim 16 (currently amended): A device according to claim 9, ~~characterized in that~~ wherein the modification unit ~~unit (450)~~ is configured to receive a modification command (452) to modify the active part (440) of the linear index array (430); and

5        wherein the modification unit ~~unit (450)~~ is configured to modify elements (432 to 438) of the active part (440) of the linear index array (430) on the basis of the modification command.

Claim 17 (currently amended): A computer program for processing a polygon model, ~~characterized in that the computer program comprises~~ comprising:

      a linear vertex array (410) which is static and which contains the vertices (110A to 122A) of the image elements of the polygon model;

5        a linear index array (430) whose elements (432 to 438) define the image elements (130A to 142A) of the polygon model by pointing at the vertices (110A to 122A) of each image element (130A to 142A), and which linear index array (430) comprises an active part (440), the image elements defined by the elements (432, 434) of the active part being included in the polygon model part to be presented graphically; and

10        computer-executable commands ~~to modify~~ for modifying the active part (440) of the index array (430) to change the image elements (130A, 142A) included in the polygon model part to be presented graphically while maintaining the linearity of the linear index array (430).

Claim 18 (currently amended): A computer program according to claim 17, ~~characterized in that the computer program further comprises~~ further comprising computer-executable commands ~~to present~~ for presenting graphically the polygon model part to be presented graphically.

Claim 19 (currently amended): A computer program according to claim 17, ~~characterized in that the computer program further comprises~~ comprising computer-executable commands to replace an element (432, 436) of the linear index array (430) with another element (434, 438) of the linear index array (430).

Claim 20 (currently amended): A computer program according to claim 17, ~~characterized in that~~ wherein the linear vertex array (410) comprises each vertex (110A to 122A) only once.

Claim 21 (currently amended): A computer program according to claim 17, ~~characterized in that~~ wherein the linear index array (430) further comprises a passive part (446), the image elements defined by the elements (436, 438) of the passive part belonging to the outside of the polygon model part to be presented graphically; and

5                    wherein the computer program further comprises computer-executable commands to move at least one element (432 to 438) of the linear index array (430) between the active part (430) and the passive part (440).

Claim 22 (currently amended): A computer program according to claim 17, ~~characterized in that the computer program further comprises~~ comprising a change array (470) to register the modification of the linear index array (430) in such a way that the linear index array (430) is restorable to the state preceding the modification.

Claim 23 (currently amended): A computer program according to claim 17,  
~~characterized in that the computer program~~ further comprises comprising:

computer-executable commands to receive a modification command (452) to  
modify the active part (440) of the linear index array (432); and

5 computer-executable commands to change the size of the active part (440) of  
the linear index array on the basis of the modification command (452).

Claim 24 (currently amended): A computer program according to claim 17,  
~~characterized in that the computer program~~ further comprises comprising:

computer-executable commands to receive a modification command (452) to  
modify the active part (440) of the linear index array (430); and

5 computer-executable commands to modify the active part (440) of the linear  
index array (430) on the basis of the modification command (452).